

LOCAL WIRELESS AUDIO SIGNAL RF TRANSMITTER AND RECEIVER HAVING
A SINGLE DOWNCONVERTER WITHOUT THE NEED FOR IF CARRIER

ABSTRACT

A local wireless system for transmitting a modulated RF
5 carrier audio signal from a base unit to a receiver unit is
provided. The base unit has a pair of audio input connections
of which are coupled to an audio source amplification device
for receiving left and right audio signals. The receiver unit
has a pair of electroacoustic transducers (speakers) for
10 reproducing demodulated left and right audio signals modulated
upon the RF carrier audio signal. The base unit encloses a
transmitting circuit having a first antenna and first, second
and third circuits which modulate the left and right audio
signals onto an RF carrier signal in the 900 MHz range. A
15 receiver unit encloses a receiver circuit and is coupled to
the pair of speakers. The receiver circuit performs a single
downconversion of the modulated RF carrier signal from the
900MHz range to a useable 10.7MHz left and right signal.